

ORGANIC FERTILIZERS



NATURE'S BEST LIQUID ORGANIC FERTILIZER 5-1-1

ORGANIC
VS.
CHEMICAL FERTILIZERS



THE BENEFITS OF USING ORGANIC FERTILIZERS

A good rule-of-thumb which seems to work out accurately for most producers is: "Use one-fourth to one-half the total nitrogen per acre when using **ORGANIC FERTILIZERS** compared to the recommended equivalent of chemical fertilizers."

The gradual release by microorganisms in the soil for plant use provides a much more efficient transfer of nutrients from the fertilizer to the plant. Also, the evaporation of nutrients is eliminated and leaching is almost non-existent.

The alkaline fraction of the soil will continue to be eliminated because **ORGANIC FERTILIZERS do not utilize salt as a carrier**. The larger number of trace minerals (over 100) will gradually rebuild the soil mineral base, while chemical fertilizers utilize only 3 basic elements (N-P-K) and use salt as a carrier that is eventually left behind to further damage the soil. Additionally, **ORGANIC FERTILIZERS provide a source of organic material which will leave behind an organic soil repairing residue each season.**

While there are many benefits not described here, some of the key benefits of **ORGANIC FERTILIZER** use are:

Ecologically and environmentally safe - no toxins, no pollution.

Provides a continuous supply of organic nutrients and trace elements. (Our organic fertilizers contain over 100 elements rather than the basic 3 N-P-K.) Most chemical fertilizers do not include specific trace elements to the soil that has become depleted from continuous cropping using chemical fertilizers. This method forces plants to continuously withdraw trace elements needed for plant tissue growth without any effort to restore these nutrients into the soil. Most experts agree that plants require a host of trace elements for optimum growth.

Provides a constant flow of amino acids and fatty acids where necessary.

Restores the depleted vitamin and mineral content to the soil.

Safe and easy to apply - no need for expensive protective clothing for applications.

Eliminates environmental contamination - especially the surface water and in many areas, the underlying water table.

OPEN ALL®

- Product Overview
- Benefit Summary
- How It Works
- Soil Conditioning
- Soil Regeneration
- Organic Vs. Chemical
- Lawn & Garden
- APS System
- Golf Course
- Construction
- Desert Reclamation
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SEPTISOL™

- Product Overview
- Wastewater Treatment
- Lagoon Treatment
- Biomass Degradation
- Textile Waste Treat.
- Odor Control

AQUATRONICS™

- Product Overview
- For Intensive
....Shrimp Farming
- Mosquito Abatement
- Lake & Pond
Remediation

●Shrimp/Fish &
Animal Applications

Provides the necessary soil microorganisms - these organisms assist with the manufacturing of organic matter and nitrogen fixation products that are very important to plant production and health.

Restores "dead" and unproductive soils.

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Many times, the continued use of chemical fertilizers makes the soil dead and unproductive, and soil bacteria is killed. Without the presence of soil bacteria, several conditions may begin: insect infestation, and nematode. **ORGANIC FERTILIZERS continue to improve the soil condition while increasing crop/plant productivity.** Most farmers will admit when asked if their soils seem to require more and more chemical fertilizers each year to achieve the same productivity. This common occurrence for farmers using chemical products is not the case for organic farmers; due to the improved soil condition each season, less fertilizer is used to achieve the same (or better) results.

Another benefit to our **ORGANIC FERTILIZERS** is that each gallon contains a small amount of **OPEN ALL®**. Although it is a necessary ingredient used during the production of our **ORGANIC FERTILIZERS**, the end result is a fertilizing product without equal.

NATURE'S BEST LIQUID ORGANIC FERTILIZER 5-1-1

DEFINITION: Liquid Organic (5-1-1) Leaf Foliar is a fish protein hydrolysate. solubilized by a special enzymatic hydrolysis process.

PHYSICAL APPEARANCE: Dark liquid

RAW MATERIAL: Fish or fish frames from filleting plant processed in fresh condition, 100% fresh protein.

PROCESSING:

Principle: Insoluble fish protein is processed into polypeptides and amino acids having a molecular weight low enough to be soluble and to react with minerals to enhance chelation.

Process: Controlled solubilization of protein conducted under well defined conditions of temperature and time, while pH maintains full utilization of all essential and non-essential amino acids. The select enzymatic hydrolysis action allows maximum availability and digestibility of the protein. After removing insoluble minerals, the remaining liquid is pasteurized and bottled.

USES: Solubility, palatability, digestibility, and molecular weight of this product make it highly suitable for a number of uses in starter formulas, pet foods, mink feed, aquaculture, mineral supplements, industrial fermentations, and organic fertilizers to name a few.

STORAGE: In its original unopened container and under normal storage conditions, the product retains all of its properties for several months. As there are no sugars in this product, reactions like Maillard's are impossible and available lysine determined by Carpenter's test remain high (95%). Proper caution should be maintained to keep product container sealed and out of direct sunlight or freezing conditions.

PACKING: 1 and 5 gallon containers

TRACE ELEMENTS:

Potassium	133.00 ppm
Calcium	0.18%
Copper	7.00 ppm
Iron	125.00 ppm
Magnesium	270.00 ppm
Manganese	8.00 ppm
Selenium	0.18 ppm
Sodium	0.12%
Sulfur	0.01%
Strontium	50.00 ppm
Zinc	19.00 ppm

GUARANTEED ANALYSIS:

Total Nitrogen	5%
Available Phosphoric Acid (P205)	1%
Soluble Potash (K20)	1%

AMINO ACIDS: Alanine, Arginine, Aspartic Acid, Cystine, Glycine, Glutamic Acid, Histidine, Isoleucine, Lysine, Methionine, Phenylalanine, Proline, Serine, Threonine, Tryptophan, Tyrosine, Valine

Water heavily after application, without causing Run-Off. Maximum Percolation and pH adjustment will be reached after the equivalent of eight column inches of fresh water have been absorbed into the OPENALL treated soils. OPENALL reduces sodium problems. improves percolation, reduces boron and normalizes pH in alkaline and sodic soils.

Distributor requests are welcome.

Please e-mail Timothy M. Sanders, DDS at sandent@wwns.com for details.

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